Allotment Evaluation (AE) For Jacona (#541)

Permittee		A	authorization Nun 3001141 3001144	nber
Livestock Use	Preference AUMs	Allotment 00541	<u>Active</u> 65 210	<u>Suspended</u> 145 0
	Period of Use	Allotment Jacona	<u>Kind</u> 10 Cattle 21 Cattle	<u>Season of Use</u> 09/16 - 05/14 03/01 - 02/28
	Kind of Livestock		Cow/Calf	
	Percent Public Land	AUMs are	authorized at 839	% public land
Allotment Profile	Physical Description	Allotment 541 is located approximately 11 miles northwest of Santa Fe, in Santa Fe County, New Mexico. Elevation on this allotment is roughly between 6,300 and 6,800 feet. Landforms on the allotment include; uplands.		
		Thirteen soil types are allotment. They include		the federal lands in this
		Alire loam, 2 to 6 percent slopes. This soil consists of loams with rooting depths greater than 60 inches. Parent materials include: Alluvium derived granite, schist, gneiss, loess, and volcanic ash. Average annual precipitation in that area ranges from 13 to 15 inches. Vegetation is characterized by blue grama, black grama, ring muhly, Galleta and broom snakeweed.		
		Buckhorse-Altazano complex, 2 to 8 percent slopes, non-flooded and flooded. These soils consist of coarse and gravelly sandy loams with rooting depths greater than 60 inches. Parent materials include: Alluvium derived from fanglomerate, sandstone, granite and mudstone. Average annual precipitation in that area ranges from 13 to 15 inches. Vegetation is characterized by blue grama, black grama, ring muhly, Galleta, oneseed juniper and broom snakeweed.		
		with a rooting depth grainclude: Alluvium deri Average annual precipi	eater than 60 inch ived from schist, tation in that area haracterized by bl	gneiss, and granite. ranges from 13 to 15 ack grama, blue grama,
		Horcado-Nazario comp	olex, 2 to 35 perce	ent slopes. These soils

consist of very gravelly loams with rooting depths greater than 60 inches. Parent materials include: Alluvium derived from schist, gneiss and granite. Average annual precipitation in that area ranges from 13 to 15 inches. Vegetation is characterized by blue grama, black grama, New Mexico feathergrass, oneseed juniper, pinyon pine, sideoats grama, Galleta, bottlebrush squirreltail and broom snakeweed.

Junebee gravelly sandy loam, 5 to 15 percent slopes. This soil consists of gravelly sandy loam with a rooting depth greater than 60 inches. Parent materials include: Alluvium derived from mudstone, fanglomerate, sandstone. Average annual precipitation in that area ranges from 13 to 15 inches. Vegetation is characterized by Indian ricegrass, blue grama, sand dropseed and Galleta.

Latierra-Lamesilla-Levante complex, 2 to 15 percent slopes, non-flooded and flooded. These soils consist of gravelly coarse sandy loams with rooting depths greater than 60 inches. Parent materials include: Alluvium derived from schist, gneiss and granite. Average annual precipitation in that area ranges from 12 to 14 inches. Vegetation is characterized by blue grama, black grama, New Mexico feathergrass, oneseed juniper, pinyon pine, sideoats grama, Galleta, oak, sand dropseed, Bigelow's rubber rabbitbrush and spike dropseed.

Levante-Riverwash complex, 1 to 3 percent slopes, flooded. These soils consist of loamy sands with rooting depths greater than 60 inches. Parent materials include: Alluvium derived from granitic sandstone, schist, gneiss and granite. Average annual precipitation in that area ranges from 13 to 15 inches. Vegetation is characterized by blue grama, sand dropseed, black grama, Bigelow's rubber rabbitbrush, Galleta and spike dropseed.

Nazario gravelly loam, 2 to 8 percent slopes. This soil consists of gravelly loam with a rooting depth greater than 60 inches. Parent materials include: Alluvium derived from granite, quartzite and residuum weathered from granite, fanglomerate, and sandstone. Average annual precipitation in that area ranges from 13 to 15 inches. Vegetation is characterized by black grama, blue grama, New Mexico feathergrass, oneseed juniper, sideoats grama, Galleta, pinyon pine.

Predawn loam, 1 to 4 percent slopes. This soil consists of loams with a rooting depth greater than 60 inches. Parent materials include: Alluvium derived from granite, schist, and quartzite and eolian material derived from volcanic ash. Average annual precipitation in that area ranges from 13to 15 inches. Vegetation is characterized by blue grama, Galleta, ring muhly, black grama and broom snakeweed.

Management Evaluation	Actual Use	Actual use has not been reported and figures below were determined from paid bill reports.
	Key Forage Species Grazing System	western wheat, blue grama, black grama, ring muhly, Galleta, New Mexico feathergrass, sideoats grama, little bluestem, sand dropseed, spike dropseed, Indian ricegrass and bottlebrush squirreltail Pasture rotation with private lands
	Management Objectives	'I' category allotments are managed in a manner to help the allotment achieve satisfactory ecological condition.
	Land Status Acreage	BLM State Private 3,104 0 1,280 The allotment is under an 'Improve' ('I') management category.
		grama, oak, Galleta and oneseed juniper. Zia fine sandy loam, 0 to 2 percent slopes. This soil consists of fine sandy loams with a rooting depth greater than 60 inches. Parent materials include: Alluvium derived from pumice, volcanic ash, granite, and schist. Average annual precipitation in that area ranges from 10 to 13 inches. Vegetation is characterized by black grama, blue grama, ring muhly, broom snakeweed and Galleta.
		Vitrina-Haozous gravelly coarse sandy loams, 5 to 15 percent slopes, non-flooded and flooded. These soils consist of gravelly coarse sandy loams with rooting depths greater than 60 inches. Parent materials include: alluvium derived from schist, gneiss and granite. Average annual precipitation in this area ranges from 10 to 13 inches. Vegetation is characterized by blue grama, black
		Tanoan-Encantado complex, 5 to 25 percent slopes. These soils consist of gravelly sandy loams with rooting depths greater than 60 inches. Parent materials include: Alluvium derived from schist, gneiss, granite and basaltic tuff, as well as Colluvium and residuum, derived from granite, fanglomerate, and sandstone. Average annual precipitation in that area ranges from 13 to 15 inches. Vegetation is characterized by blue grama, black grama, ring muhly, New Mexico feathergrass, sideoats grama, Galleta and oneseed juniper.
		Sipapu-Yuzarra-Kachina complex, 5 to 65 percent slopes. These soils consist of gravelly sandy loams and fine sandy loams with rooting depths up to 20 inches as well as greater than 60 inches. Parent materials include: Colluvium and residuum derived from granitic sandstone, siltstone, and mudstone and Alluvium derived from granite, gneiss, and schist over residuum from granite, sandstone, and fanglomerate. Average annual precipitation in that area ranges from 12 to 14 inches. Vegetation is characterized by blue grama, black grama, mountain mahogany, little bluestem, oneseed juniper, pinyon pine, sideoats grama and eriogonum.

	3001141	3001144
	AUMs Year	AUMs Year
	65 2007	209 2007
	65 2006	209 2006
	65 2005	209 2005
	65 2004	209 2004
	65 2003	209 2003
	Non-use 2002	209 2002
	Non-use 2001	209 2001
	Non-use 2000	209 2000
	Non-use 1999	209 1999
	Non-use 1998	209 1998
Utilization	Due to the lack of staff utilization	
Ctilization		nt visit it was determined that the
	allotment was either receiving sl	
	_	light to moderate amounts of
	utilization.	7 9 20 2000 1
Climate	The past water year (Oct. 1, 200	· · ·
	temperature has been nearly ave	
		has been nearly average (-1 to 0
	inches below average). This sho	ould provide nearly average plant
	growth on cool season and warn	
		•
	During the past 10 years (1998-)	2007) the temperature has been at
		on has been fluctuating annually,
	but it is important to note that be	= -
	-	
		ow the annual average. (Based on
		e Division, New Mexico from the
	Western Regional Climate Cent	er.)
	Climate change is a concern not	only in New Mexico but
	globally. "Effects of increasing	atmospheric CO ₂ levels on plants
	are predicted to cause dramatic	changes in native vegetation.
	Global climate change may acce	
	while ecosystem structure and for	* '
	_	imate could shift ecosystems (i.e.,
		•
	1 00	and have effects, not only to an
	individual species, but to the eco	· ·
	deletions of vegetation species"	
	Mayeux. 1992. Viewpoint: A vi	-
	deletions and the balance of natu	are. Journal of Wildlife
	Management 45:322-333.)	
	We anticipate that our monitoring	ng efforts will help indicate
	vegetation shifts, allowing for m	-
	address global climate change.	
Trend	One long term trend plot has been	en established on this allotment
Tiellu		
	but due to lack of staffing it has	
	_	ompleted on September 30, 2008.
	The actual survey forms are ava	
	Below is a summation of the inf	formation gathered by the survey.

T	Tarrett of D. I. 127 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Within the Rangeland Health Attributes are three different categories of indicators. The categories include; Soil and Site Stability, Hydrologic Function and Biotic Integrity. The percent of indicator score was created by multiplying an assigned value for departure from site descriptions/reference areas by the number of indicators at the level. Departure scores are categorized as: none to slight = 5, slight to moderate = 4, moderate = 3, moderate to extreme = 2 and extreme = 1. For example, if all indicators under Soil/Site Stability were rated none to slight (best condition), the equation would be 5(score)*10indicators=50/50*100 = 100% similarity, or what is expected based on an Ecological Site Description. Standards for each individual category are met when they are rated Proper Functioning Condition or Functioning at Risk-Upward Trend. Not meeting standards are ratings of; Functioning at Risk-Static, Functioning at Risk-Downward Trend and Non Functional. Soil and Site Stability One indicator was deemed None to Slight, eight were deemed
	Slight to Moderate and one was deemed Moderate. Rating: 80%
	Hydrologic Function One indicator was deemed None to Slight, eight were deemed Slight to Moderate and one was deemed Moderate. Rating: 80%
	Biotic Integrity Four indicators were deemed None to Slight, four were deemed Slight to Moderate and one was deemed Moderate. Rating: 87%
	Overall Rating: 82%
	Soils were rated at Proper Functioning Condition, Biotic Flora was rated at Proper Functioning Condition and Biotic Fauna was rated at Proper Functioning Condition.
	Current livestock does not appear to be adversely affecting this allotment - all standards are being met.
Riparia	-
Wildlin	, 1
	Elk and deer are grazers/browsers; however there is little dietary overlap between deer and cattle. Best management practices i.e. rotational grazing would ensure that forage production within this area can support both wildlife and livestock on a sustained basis.

	Threatened and Endangered Species	It is determined that there are no federally listed threatened or endangered species likely to be found in the subject allotment. There is no designated critical habitat for any species listed by the USFWS within the allotment.
Conclusions and Recommendations		The vegetation appears to be in good condition with good diversity. Issues on this allotment include; recreational use, urban
		encroachment and ORV use. It is recommended that grazing be renewed for another 10 years without any changes to the permit.

